Notebook, N-13-11-01

Acme Co.,
MFG. STATIONERS,
69 FULTON STREET,
NEW YORK.
45009

1% Co Ra
Brg Rat 1802 Ra
7121

12% Bi Ni Connected to Cond
ditto 7½ to Con 7113

End book

7117 unimportant
Ra, 1% Co — 7121

1742 Reg	7615 7612	6726 6727	1243 1250	1253 1260	1267 1287	473 513
1743 Reg few blacks	7650 7589	6728 6729	1230 1267	1243 1283	1253 1300	460 500
1744 Reg few blax	7598 7630	6730 6731	1227 1217	1287 1247	1307 1257	500 440
1736 Reg few blax	7765 7800	6732 6733	1210 1190	1233 1213	1247 1220	420 400
1745 Reg heavy grease	7750 7443	6734 6735	1223 1220	1237 1213	1250 1227	367 363
1746-Reg blax	7770 7810	6736 6737	1227 1230	1263 1227	1280 1237	417 467
1747 Reg heavy grease	7810 7840	6738 6739	1243 1263	1293 1277	1303 1283	397 400
1748 Reg heavy grease	7772 7760	6740 6741	1263 1233	1250 1260	1297 1257	317 360
1749 Reg heavy grease	7786 7810	6742 6743	1267 1257	1263 1283	1277 1300	400 417

Phenomenona

100

1712 Expt 800 Lbs Cold precip Dup of 6666-67	7055 7140	6744 6745	1200 1210	1230 1237	1240 1250	350 467	1290 1300	1313 1327	510 517	
1712 Expt Dried Covered pans with 4th Coil Acap 6694-5	7285 7293	6746 6747	1130 1153	1173 1190	1190 1220	343 400	1270 1277	1293 1300	523 523	
1712 Expt Dried Cotton Cake Covered pans	7815 7158	6748 6749	1180 1180	1200 1220	1223 1233	393 373	1300 1283	1327 1300	520 477	
Reagent soaked 3 days — 3% KOH on hot plate washed part oxidized	7124 7306	6750 6751	943 953	1147 1147	1167 1163	383 383				
Neodymium Hydroxide 27.3 41.4	7425	6752	3	60	63	327	5			
Lanthanum Hydroxide	7.900	6753	3	53	60	327	s	[illegible] these as [illegible]		
Goldsler 675 Conc Sol NaOH dried in Box without Cover 25 Days	7680 7600 7630	6754 6755 6756	1200 1193 1210	1267 1257 1277	1290 1290 1310	327 327 320	1317 1310 1343	1313 1347 1377	487 477 497	2 cans slightly Expanded
Goldsler 676 Conc NaOH dried — Box without Cover 35 Days	7543 7555 7530	6757 6758 6759	1233 1250 1250	1310 1327 1330	1330 1357 1357	350 333 333	1393 1407 1400	1423 1433 1430	313 530 547	

	150			200			250		
6754	1320	1367	607	1317	1377	703	1217	1363	670
6755	1303	1352	617	1283	1370	697	1193	1333	647
6756	1330	1383	650	1320	1397	690	1240	1393	667
6757	1400	1450	747	1350	1517	713	1240	1423	673
6758	1390	1433	723	1400	1490	677	1193	1400	657
6759	1397	1443	690	1377	1460	687	1220	1393	663

Seams slightly Expanded

Goldsh 680 Conc NaOH. dried 60x 5 holes 40 days	7650 7650 7605	6760 6761 6762	1263 1267 1260	1343 1333 1330	1363 1360 1350	333 350 317	1410 1387 1400	573 550 567	
Goldsln 697 325 gms NaOH. dried 33 days	7285 7270 7258	6763 6764 6765	1233 1240 1227	1277 1313 1280	1300 1330 1300	333 333 333	1343 1393 1370	1373 1420 1393	627 610 610
Goldsln 702 580 NaOH. dried 24 days	7515 7480 7510	6766 6767 6768	1207 1207 1210	1327 1330 1347	1350 1353 1373	311 311 343	1397 1393 1413	1417 1413 1433	410 400 397
Lot 103f. few leaves	7500 7490	6769 6770	1190 1210	1247 1283	1267 1307	350 363			
1750.	7737 7630	6771 6772	1270 1250	1303 1243	1323 1260	340 350			
1751	7762 7720	6773 6774	1253 1243	1280 1297	1297 1317	350 383			
1752	7805 7800	6775 6776	1220 1223	1260 1313	1283 1330	300 300			
1753	8010 8008	6777 6778	1193 1197	1260 1283	1283 1303	300 340			

	150			200					
6760	1380	1430	653	1330	1443	677	1173	1387	647
6761	1393	1433	593	1363	1447	673	1200	1390	673
6762	1393	1447	617	1367	1453	673	1200	1360	657

1754 — 7786 7978	6779 6780	1227 1207	1313 1300	1327 1317	300 337					
1/8 liber 97 Spelf goldish 662-3 f .0009 g .0078 Dups 1 310 2695 326 2711 323 2745 333 2745 Long tube 3% Cobalt + 4% [illegible]	6781	1893	2230	2273	417	2117	2143	150 2233	2283	710 Slightly bent + swollen
Dup of 6781 - 2755 2755 2743 2760	6782	1907	2243	2273	417	2100	2000	2200	2250	690
Dup with flake .050 dyr f .0009 gr .0079 2725 2750 2795 2780	6783	1977	1907	1933	417	1933	2000	1877	1973	823
Dup of 6783 2730 2745 2771 2781	6784	1983	1953	1993	417	1877	1917	1893	1997	850 Slightly bent + swollen

				250		
6781	250 2140	2253	700	3% Cobalt 2100	2213	1137
6782	2133	2233	677	3% Cobalt 2107	2227	1001
6783	1657	1790	697	1630	1783	1027
6784	1720	1967	770	1733	1917	1047

3% Cobalt,

5 bent
seam flaring

Slightly scaling
seam flared

seam flared

	350			400		
6781	2070	2187	757	1933	2027	613
82	1933	2107	710	2040	2193	527

200	1/2		500		
2100	2187	583	2040	2193	537
2020	2150	587	2060	2183	480

OVER

seam flaring

300					
1577	1697	803	1633	1750	1043
1653	1810	817	1657	1800	903

bad bent 2 splits & swollen

bent

	550	1/2	14	600		
6781	1840	1947	967	1783	1933	673
6782	1813	1900	887	1737	1867	667
6783	1083	1150	993	893	950	870
6784	1260	1367	1053	1100	1167	953
6785	1967	2033	1507	1510	1633	1100
6786	1620	1697	1583	1623	1810	1100

Severe flaring

	400			500		
6783	1417	1537	760	1423	1533	457
6784	1507	1650	747	1593	1700	867

	750		
6781	1417	1592	1025
6782	1438	1500	1115
6783	546	567	875
6784	708	738	1045
6785	963	1083	275
6786	1538	1654	195

slightly bent

650			700		
1753	1930	500	1333	1571	507
1747	1890	567	1396	1538	543
757	853	733	592	621	463
1063	1170	827	700	758	540
1503	1607	1567	1171	1250	863
1407	1600	1547	1604	1833	800

badly bent flared & swollen 6 splits + 3 splits

2 tubes badly bent ?

1/8 tubes goldsmith 621 368 D -0073 97 ope fl- 0009-	2926 2940 2944- 2993	6785 6786	2440 2440	2717 2747	2733 2760	1117 1227	2560 2600	2640 2650	
1755	7890 7819	6787 6788	1217 1213	1237 1243	1247 1260	338 367			
1756	7770 7790	6789 6790	1207 1217	1260 1237	1277 1255	387 358			
1256 — after heating dipped in 3% KOH. dried heater, wet several times, inside glass cell — 6 times wet + dried		6791 6792	1187 1143	1160 1177	1167 1183	410 400	1193 1207	1220 1227	513 550
Reg run in Reg sol Containing 2 grams Ni(OH)2 in Electrolyte	7150- 7165	6793 6794	1160 1147	1227 1223	1237 1233	417 430	1280 1283	1307 1307	577 564
Reg as above with 2 grams Iron mix in Electrolyte		6795 6796	1153 1127	1263 1240	1277 1257	433 463	1313 1313	1333 1333	523 533
Reg but with 2 grams Each of Fe mix + Ni(OH)2		6797 6798	1197 1180	1287 1287	1293 1297	437 430	1343 1347	1370 1373	560 620

	150 lot			200		
6785	2433	2533	1900	2350	2450	1900
6786	2583	2633	1683	2240	2343	1893

Tubes in both cells badly bent

	150 lot			200/		
6795	1327	1360	623	1160	1330	630
6796	1300	1340	657	1163	1330	653
6797	1317	1353	627	1183	1360	657
6798	1317	1350	633	1217	1360	697

Bennett —

Beatswallen

1960	2083	1170	1703 x	1860	1585
1910	1967	1340	1870 x	1985	1650

Bad bent swollen

bad bent, swollen split 4 pieces

bad bent, swollen, seams flared

	300	½	15	400			500		
6785	2110	2143	—	2283	2307	1520	2017	2123	1130
6786	1810	1870	1813	1900	2027	1787	1983	2067	1113

1757	7850 7825	6799 6800	1180 1160	1257 1263	1267 1273	357 310	1327 1347	1353 1373	493 503	
HgO Expt see book – Fe Iron cell – 4m Tubes		6801 6802	1917 1817	1957 1810	1987 1830	530 477	1927 1810	1950 1833	X	
~~Ra n. X.~~										
Ra n. X	7600 7640	6804 6805	1193 1207	1313 1273	1330 1293	377 323	1303 1267	1330 1300	527 533	✓
Ra Y	7514 7572	6806 6807	1203 1167	1350 1247	1363 1260	460 310	1327 1223	1357 1243	660 630	✓
Ra Z	7655 7630	6808 6809	1187 1100	1280 1287	1297 1327	333 333	1253 1283	1280 1343	543 506	✓
104f 4.2 24–	7345 7294	6810 6811	1167 1193	1297 1297	1310 1313	350 363				
1758 Reg	7508 7462	6812 6813	1210 1240				1287 1303	1310 1323	520 480	✓

1759	7680 7642	6814 6815	1260 1250	~~1317~~ ~~1330~~	~~1327~~ ~~1343~~	~~357~~ ~~403~~			
1760	7510 7580	6816 6817	1227 1250	~~1320~~ ~~1317~~	~~1333~~ ~~1330~~	~~433~~ ~~460~~			
1761	7535 7530	6818 6819	1210 1227	~~1303~~ ~~1333~~	~~1323~~ ~~1353~~	~~507~~ ~~493~~			
1762	7426 7475	6820 6821	1200 1217	~~1240~~ ~~1267~~	~~1260~~ ~~1257~~	~~473~~ ~~443~~			
1764	7545 7570	6823 6824	1277 1280	~~1313~~ ~~1350~~	~~1330~~ ~~1367~~	~~447~~ ~~440~~			
1765	7521 7580	6825 6826	477 1273	~~1333~~ ~~1347~~	~~1347~~ ~~1360~~	~~417~~ ~~447~~			
1753 Dried 48 Hours 212 & previously loaded 8000	7662 7700	6827 6828	1237 1233	~~1293~~ ~~1280~~	~~1303~~ ~~1297~~	~~423~~ ~~417~~	~~1250~~ ~~1240~~	~~1263~~ ~~1253~~	~~613~~ ~~590~~
1766	7380 7442	6829 6880	1230 1233	~~1287~~ ~~1317~~	~~1300~~ ~~1327~~	~~487~~ ~~517~~			

slightly bent,

1767	7536 7500	6831 6832	1280 1297	1300 1320	1313 1333	447 450			
1768	7580 7535	6833 6834	1267 1250	1323 1303	1337 1320	430 430			
1769	7420 7515	6835 6836	1283 1257	1323 1300	1333 1317	390 393			
1/8 in Cuban Hydrate 1634 Illum 50 on 190 0078 flake 97 050 sgr 0009 Bt 2,750 average D 365 003 Sleek small perf		6837 6838	1983 2067	2300 2310	2317 2340	390 470	1933 1967	1983 2010	613 650
Dup 621 green 12% Bi- 0073 -fl 97 050 sgr 0009 352 D 003 slk small perf	21940 cut	6839 6840	2517 2450	3213 3060	3340 3083	1900 1933	2600 2550	2847 2767	1300 1300
1770	7575 7512	6841 6842	1283 1257	1327 1330	1343 1343	423 433			

Reg

Slightly bent
& seams flared

	150			200						300		
6837	1807	1910	707	1850	1963	720	1723	1923	863	1777	1883	788
6838	1843	1967	707	1883	1987	773	1720	1893	853	1833	1927	991

B

Badly bent
+ swollen
ditto + seams opening

	150										3—		
6839	2533	2900	1867		2243	2417	2250	1843	1987	1267	1607	1777	1752
6840	2200	2360	1843		2043	2267	2252	1793	1890	1097	1633	1880	1646

5 bent 2 curves flared

	350			400		
6837	1663*	1827	1150	1550	1660	923
6839	1687*	1843	1083	1507	1717	950

6 in 1 place bad bend

flared split 3 places

				450	1/2	14
6839	1780*	2037	923	1933	2117	2363
6840	1550*	1787	1667	1000	1377	1133

500
Run 3 times more

6839	1090	1263
6840	1113	1333

5 bent

Run on board 3 times more

450		500					500
1233	1390	993	1097	1260	707	1213	1365
1267	1500	1050	1060	1297	917	1260	1400

NG

Deep Burners

1 split
1 split 4 smaller

450	1/2	H						
1527	2060		1267	1567	1583	977	1100	913
1207	1383		1320	1507	1223	930	1183	1120

Recut new Fz. in—

1771	7549 7520	6843 6844	1267 1280	1320 1320	1333 1333	410 427	ǀ					
1772	7594 - 7543	6845 6846	1283 1267	1350 1327	1360 1343	397 387	ǁ					
104f or 107 1256 Ni -	7290 7310	6847 6848	1250 1207	1267 1290	1280 1300	380 397	ǁ					
1411 RG baked 48 hours 212 -	7280 - 7325	6849 6850	1183 1193	1213 1203	1223 1220	337 310		1213 1207	1233 1220	583 569	ǁ	
1773	7500 7550	6851 6852	1237 1267	1280 1297	1293 1310	310 323	ǀ					
1774	7531 7499	6853 6854	1303 1290	1387 1387	1400 1393	447 450	ǀ					
1763 Expt	7343 7426	6855 6856	1173 1177	1320 1280	1337 1297	410 450	ǀ					
Anode flake 21 KOH 2 grms Aluminum in Each 100 cc Current 8 amp 8 hours made by greenly		6857 6858	1250 1243	1343 1327	1360 1317	447 467	ǀ					Dont hurt,

Anode flake 7120 21K 2 gms Na Silicate 7150 per 100cc 8 amp 8 hours greeley	6859 6860	1267 1230		1360 1363	1377 1383	453 460	Dont Hurt.		
Greeley Anode flake Silicate Soda in KOH. 2 gram per 100cc KOH.	6861 6862	1270 1273		1380 1377	1397 1397	423 453	Dont Hurt		
Greeley Cathode flake 2 gms ~~Silicate Soda~~ Aluminum [illegible] 100cc KOH, 8 amp 8 hours	6863 6864	970 1017		1053 1100	1070 1127 Hurts	450 430 S	1060 1027	1083 1063	547 540
~~[illegible] cathode flake~~ [illegible] 7420. 1727 7357 Dried 48 hours at 212 Fah.	6865 6866	1200 1183		1300 1290	1317 1303	417 427	Dont Hurt Hotwood Co		
Goldsch 677 7220 taken from big batch 7204 677 dried small boxes 7238 5 Holes in cover 50 days	6867 6868 6869	1217 1220 1207		1327 1330 1333	1347 1353 1357	330 350 350	1243 1247 1243	1260 1257 1263	430 453 443
Goldsch 690 - apl 21 11 Conc NaOH dried 2 7098 month in box covered 7091 without Holes 7050	6870 6871 6872	1170 1173 1203		1273 1270 1283	1297 1293 1280	403 413 420	1187 1187 1220	1227 1223 1243	463 463 500

Goldschm 691 Conc NaOH. dried Covered box without Holes 2 months	7078 7090 7056	6873 6874 6875	1173 1203 1187	1230 1253 1240	1250 1273 1260	400 477 407	1227 1247 1230	1247 1267 1253	493 547 483	[illegible]
Goldschm 693 520 gram NaOH. Dried box without Cover 2 months	7290 7320 7280	6876 6877 6878	1243 1243 1267	1327 1347 1367	1350 1367 1390	410 403 397	1297 1287 1297	1317 1363 1313	503 517 524	[illegible]
1589-RA Dried 48 Hours 212° Fahr	7540 7680	6879 6880	1187 1203	1297 1293	1310 1317	457 460				
1634-RA Dried 48 hours 212°	7500 7450	6881 6882	1183 1177	1313 1293	1327 1310	450 457	1260 1253	1287 1267	583 577	
Goldschm 704 Made with 10% Cobalt Dried box without Cover 40 days 520 gram NaOH.	7235 7262 7276	6885 6886 6887	1217 1220 1220	1333 1357 1360	1350 1367 1370	367 367 367	1257 1297 1293	1277 1217 1217	410 523 582	[illegible]

250 all tubes burst, seams flew

6883 1967* 2104

84 2108* 2179

10 KCl—

Co —

	150	1/2	H.	200	1/2	H			
6885	1333	1363	463	1247	1380	577	1167	1330	583
6886	1363	1387	510	1307	1383	597	1177	1330	590
6887	1350	1370	517	1307	1363	597	1243	1390	657

~~Goldsize 704~~
~~Made with 10% Cobalt hydroxide~~ ~~7735~~
~~by x [illegible] 40 [illegible]~~ ~~7262~~
~~520 [illegible]~~
~~6883~~
~~6884~~

1/8 Tubes – Bursting test
21KZ4 10 grains HCl
Each case —

2590 2764 2670 2713	2765 2787 2779 2775	6883 6884	2046 2013	2092 2042	721 721	OK except for flaring seams —
Reg. 1256 – Digested 24 hours in 2 l KOH 20 gms Silicate Soda by Greenly F 21KZ41	7197 7068	6888 6889	1317 1323	1327 1340	433 480	No Hurt

Reg Ni digested 24 hours in 21% KOH, 2 gms aluminum greenly	6890 6891		1243 1200	1260 1217	533 600	Hurts only little			
Anode flakes, greenly 21 KOH digested 24 hours with Ferrous Hydrate	6892 6893	1150 1167	1283 1277	1300 1300	410 400				
Cathode flakes Same as 6892	6894 6895	1170 1150	1290 1297	1313 1313	440 423				
Silver plated tubes greenly Reg Ni 7121 7026	6896 6897	1157 1160	1290 1290	1303 1307	417 393	1250 1257	1270 1277	560 543	
Cobalt plated tubes greenly Reg Ni 6956 6139	6898 6899	1097 1083	1180 1143	1197 1160	370 360	1147 1127	1210 1173	517 473	
Lot 105 flake. Lots of leaves & some fine -	6900 6901	1223 1203	1313 1300	1327 1317	407 393	1247 1227	1273 1243	~~560~~ ~~537~~ [illegible]	
1775 - 7465 7473	6902 6903	1227 1207	10 Times 1237 1227	Hot 1250 1240	546 538				
1776 7370 7470	6904 6905	1233 1237	1253 1273	1260 1280	563 546				

NOTE

				200			250			300		
6896 6897	150 1260 1283	1300 1327	560 587	1200 1243	1257 1297	670 663	1233 1283	1310 1347	717 727	1167 1210	1247 1283	593 604
6898 6899	150 1240 1193	1270 1220	530 480	1220 1133	1253 1157	620 523	1227 1230	1257 1260	710 630	1250 1220	1293 1257	614 620

note good

	350			400 .9V.		
6898	1280	1330	683	1260	1327	677
6899	1190	1223	633	1273	1257	650
	500			550		
6898	1253	1363	763	1227	1303	760
6899	1237	1270	767	1247	1287	767

NOTE
Co

600			950		
1140	1213	737	917	1073	803
1170	1230	753	1057	1087	800

Cobalt dont get
passive like
Ni in time

Note very good
High Δ st

				10Hot	½	H	
1777	7451 7490	6906 6907	1230 1227	1260 1270	1267 1280	533 546	0
1778	7560 7590	6908 6909	1227 1227	1267 1280	1277 1290	563 567	1
1779	7624 – 7543	6910 6911	1240 1210	1273 1250	1260 1260	558 550	0
1780	7415 7550	6912 6913	1217 1197	1250 1233	1260 1247	563 558	1
1781	7420 7461	6914 6915	1193 1207	1230 1257	1240 1263	571 579	1
1782	7590 7635	6916 6917	1220 1253	1243 1273	1257 1290	550 583	1
1783	7481 7539	6918 6919	1200 1200	1253 1263	1263 1267	575 613	1
1784	7475 7390	6920 6921	1227 1197	1283 1277	1297 1290	646 629	1
1213— Dried 48 Hours 212°	7420 7370	6922 6923	11.53 11.53	1283 [illegible]	1300 1277	457 458	0

1244 Dried 48 Hours at 212°	7453 7410	6924 6925	1160 1163	1310 1297 1044	1327 1307	393 403
1785	7572 7579	6926 6927	1223 1217	1267 1253	1293 1267	708 696
1786	7440 7517	6928 6929	1197 1207	1260 1316	1267 1317	500 558
1787	7642 7593	6930 6931	1200 1210	1257 1293	1267 1300	513 567
1464 Dried 48 Hours 212°	7324 7225	6932 6933	1147 1143	1278 1260	1283 1287	470 460
1486 Dried 48 hours 212°	7235 7334	6934 6935	1143 1177	1257 1260	1277 1280	450 423
1788	7485 7574	6936 6937	1227 1237	1287 1293	1293 1300	550 550
1789	7570 7469	6938 6939	1247 1240	1290 1307	1297 1313	525 554
1790	7560 7575	6940 6941	1233 1230	1287 1287	1293 1293	542 513

				10 Hot		
1791	7453 7550	6942 6943	1237 1243	1277 1273	1283 1290	563 533
1792	7300 7356	6944 6945	1210 1213	1267 1240	1290 1257	604 617
1793	7328 7320	6946 6947	1203 1213	1273 1267	1283 1287	642 583
1794	7332 7392	6948 6949	1207 1227	1240 1250	1257 1263	554 554
1795	7323 7323	6950 6951	1227 1230	1210 1233	1217 1243	453 450
1796 –	7545 7702	6952 6953	1203 1247	1213 1300	1227 1317	467 480
Lot 105 B flake – 23.7 4.6 – 1256 m Notice heavy [illegible]	7680 7720	6954 6955	1177 1183	1180 1216	1193 1233	390 423
Lot 106 A flake	4395 4460	6956 6957	1190 1203	1213 1223	1227 1237	510 517

— 1513 — Dried 48 Hours 212°	7380 7389	6958 6959	1177 1160	1223 1217	1247 1233	533 384
1542 Dried 48 Hours 212°	7485 7370	6960 6961	1157 1153	1183 1157	1200 1170	347 347
1256 - Hydrogen test - run twice then charge full keep one and the other to go [illegible] Hydrogen thru liquid in cell for 6 hours, then discharge both cells -	7185 7082	6962 6963	1153 1117	1290 1243	1310 1273	510 459
Old 2831 washed free of KOH. Soaked weak Hydrofluoric acid 10 hours, then soaked all night in water. Tube swelled but not split — 21K 2Li		6964	900	x sl. [illegible] 694	737	400
Old 2832 washed free KOH. Soaked 10 hours fluoride ammonia. Badly split. 21K 2Li		6965	703	x 6 [illegible] 2 places 750	780	643

[illegible] here

						50	100		
Reg NiOH, soaked week or more in 9% KOH, but only 2 days or so in liquid as it split, washed free KOH. 7002 no black	6966	947	1167	1187	573	l			
Dup with 6% — lot black within 7105	6967	910	1133	1157	373	0			
Goldsten 705 big bottle - 1% Cobalt - 7500 7505 7469	6968 6969 6970	1171 1213 1207	3rd Run 1297 1343 1343	1310 1360 1360	377 370 317	6th Run 1330 1380 1377	1367 1380 1377	1397 1417 1413	
Reg Ni Tubes connected to Can 7255 7250	6971 6972	927 890	1120 1013	1127 1020	333 420	1183 1120	1210 1130	483 457	
Reg Ni - Iron connected to Can - 7380 7360	6973 6974	1110 1823	1180 1000	1197 1260	360 347	1227 1173	1253 1237	610 553	
Goldsten 658 510 gram NaOH 1% Cobalt. dried in box [illegible] 7010 7000 7060	6975 6976 6977	[illegible] 1123 1130	1267 1230 1237	1287 1243 1250	357 333 503	50 6th 1290 1273 1267	1297 1267 1280	1320 1293 1307	510 570 613

	150	½	H	200						250		
6968	1310	1503	767	1243	1470	600	1297	1437		1287	1433	650
6969	1267	1477	740	1283	1520	597	1380	1480		1370	1500	700
6970	1287	1487	700	1413	1520	657	1450	1530		1400	1527	713
	150									300		
6971	1160	1273	477	1080	1147	620	1200	1270	617	1137	1223	547
6972	1123	1247	557	1083	1103	530	1173	1213	650	1143	1190	560
	150											
6973	1233	1273	527	867	1147	607	1243	1323		1193	1300	590
6974	1207	1250	530	1183	1253	610	1183	1260		1177	1257	590
	150											
6975	1300	1353	627	1263	1384	583	1310	1387		1310	1363	735
6976	1273	1333	590	1213	1393	563	1467	1530		1281	1347	785
6977	1293	1337	543	1213	1360	553	1463	1523		1283	1353	748

300 1/2 14

6968	1300	1427	817	1213	1450	757
69	1323	1483	723	1230	1450	710
70	1343	1507	777	1230	1433	903

6975	1213	1287	447
76	1190	1293	450
77	1203	1290	450

400 1/2 H.

NOTE

			450				
1120	1360	470	1097	1320	687	1133	1333
1127	1377	507	1057	1257	687	1028	1313
1160	1400	517	1110	1330	703	1130	1427

Old 2830 Soaked 24 hours Conc Ammonia then 24 hours water -		6978	847	787	787	410			
Goldslam flake Seperated in $CuSO_3$ $CuCl_2$ sol in 8 hours - 240 Tramps 5.4 to tramp -	7292 -								
	7345 -	6979	1103	1163	1187	377			
	7345	6980	1180	1213	1233	380			
		6981	1120	1100	1120	383			
Lot 106 B flake 24.3 - 1$	7295	6982	1183	1173	1183	390			
	7304	6983	1170	1213	1223	433			
Goldslam 695 Made 520 $NaOH$ dried box without cover 35 days	7500 -	6984	1117	1127	1153	317			
	7455 -	6985	1150	1133	1163	317			
	7435	6986	1100	1133	1160	317			
Goldslam 699 520 $NaOH$, 45 days open box	7650	6987	1127	1160	1173	317			
	7630	6988	1127	1197	1220	327			
	7600	6989	1077	1150	1180	317			
Goldslam 700 520 $NaOH$ 45 days in box without cover	7410	6990	1157	1220	1233	407			
	7390	6991	1147	1193	1210	363			
	7380	6992	1250	1300	1313	393			
Goldslam 701 520 $NaOH$ in box without Cover 45 days	7415	6993	1233	1280	1293	360	1303	1323	607
	7413	6994	1237	1363	1360	367	1377	1423	627
	7380	6995	1227	1333	1350	403	1377	1400	637

				57			58 6th			
Goldsh 703 525 NaOH. 1% Cobalt dried 6 at without Cover 30 days	7380 7390 7390	6996 6997 6998		1330 1327 1330 10 Hot	1347 1347 1357	330 370 420	1373 1373 1377	1353 1350 1333	1400 1380 1400	663 707 743
1797	7995 7880	6999 7000	1240 1233	1270 1270	1277 1277	517 517				
1798	7470 7465	7001 7002	1217 1227	1243 1260	1253 1270	550 517				
1799	7450 7415	7003 7004	1247 1237	1273 1243	1280 1253	517 517				
1800	7610 7605	7005 7006	1240 1220	1237 1260	1250 1290	517 567				
RA1700 Dried 48 hours 212°	7433 7470	7007 7008	1183 1193	1217 1243	1230 1257	387 370				
RA 1733 Dried 48 hours 212°	7570 7565	7009 7010	1197 1213	1243 1243	1257 1257	413 430				
RA1747 - Dried 48h 212°	7745 7675	7011 7012	1230 1213	1287 1310	1297 1323	490 583				

	150			200		
6996	1310	1447	623	1200	1420	610
6997	1270	1430	597	1263	1423	653
6998	1193	1483	597	1093	1440	647

250			300		
1277	1390	661	1117	1280	490
1277	1377	451	1143	1293	533
1343	1453	795	1300	1463	570

↑ NOTE

1805	7445 7645	7013 7014	1260 1243	1250 1247	1260 1260	517 527
1803	7447 7400	7015 7016	1213 1207	1247 1240	1260 1250	527 533
1804	7304 7420	7017 7018	1180 1217	1217 1263	1227 1273	533 550
1806	7665 7690	7019 7020	1237 1233	1250 1240	1290 1277	533 550
107 A Hake few fines	43f 7400 7405	7021 7022	1170 1180	1287 1247 10 [illegible]	1303 1260	533 460
1811	7560 7535	7023 7024	1217 1217	1200 1217	1210 1230	533 533
1812	7490 7570	7025 7026	1230 1240	1223 1257	1230 1267	550 533
1807	7512 7579	7027 7028	1243 1247	1227 1237	1273 1247	533 533
1808	7455 7479	7029 7030	1223 1247	1260 1247	1267 1260	533 533

Fe: covered thick gray deposit.
Small amount deposit –

Reg Ni Positive pole to Can	7048 7110	7031 7032	1183 1217	1193 1163	1213 1177	377 340	1277 1220	1297 1233	490 497
Reg Ni Fe pole to Can		7033 7034	1177 1150	1290 1283	1313 1273	377 387	1267 1293	1300 1327	580 637
Reg Ni 1 gram precip Lead Hydrox in cell –		7035 7036	1090 1147	1237* 1160 *	1250 1177	443 240			
Dup of 7035 3 gram Pb hydrox		7037 7038	1110 1160	1163 * 000 *	1190 000	440 237			
Reg Ni – 1 gram Manganic hydrox Each cell		7039 7040	1173 1157	1283 1263	1293 1280	490 487	1263 1260	1500 ✓ 1290	823 857 ?
Reg Ni 3 gram Manganic hydrox		7041 7042	1157 933	1327 1237	1343 1250	443 890	1320 1240	1350 1267	857 827
Reg Ni 1 gram Zinc hydrox Each cell –		7043 7044	1177 1187	~~1093~~ ~~1073~~	~~1103~~ ~~1103~~	~~487~~ ~~487~~			
Reg Ni 3 gram Zinc hydrox		7045 7046	1140 1153	~~1087~~ ~~1057~~	~~1013~~ ~~1063~~	~~667~~ ~~737~~			
1809	7705 7545	7047 7048	1220 1200	~~1257~~ [illegible]	~~1263~~ ~~1243~~	~~533~~ ~~537~~			

	150			200	1/2	H	250	1/2	H			
7031	1303	1347	610	1133	1193	627	1090	1190	670	1047	1177	627
7032	1220	1260	530	1183	1277	607	1127	1247	693	1037	1200	630
7033	1220	1307	630	1050	1333	713	1183	1397	697	1017	1270	607
7036	1243	1310	607	600	1350	673	1080	1267	737	1023	1247	600

	150			200			240					
7039	1333	1390	640	1237	1480	727	1353	1410	805	1217	1390	633
7040	1317	1373	630	1360	1413	727	1330	1390	931	1263	1387	647
7041	1333	1413	623	1310	1467	803	1363	1450	941	1257	1430	690
7042	1247	1407	623	1200	1397	733	1223	1413	488	1117	1337	650

NOTE

7039	1083	1320	670
7040	1133	1340	677
7041	1193	1417	683
9042	1013	1310	673

				10	½	11			
1810	7570 7626	7049 7050	1210 1220	1227 1227	1240 1237	587 593			
1813	7678 7508	7051 7052	1203 1190	1230 1213	1243 1227	573 547	Note Wants. [illegible]		
1814	7620 7635	7053 7054	1220 1223	1253 1247	1260 1257	550 547			
1815	7525 7532	7055 7056	1210 1243	1257 1253	1260 1263	577 557			
1816-	7625 7570	7057 7058	1207 1187	1253 1223	1260 1280	557 567			
1817	7590 7580	7059 7060	1230 1227	1250 1247	1260 1257	560 563	Put in 21 KOH, 6 grams LiOH Run 3 times then [illegible] put in 2 KOH 1 LiOH + Run Hot		
1818	7635 7505	7061 7062	1237 1243	1233 1263	1243 1273	550 563	6 LiOH 1383 1380	1393 1390	now on Hot
1819	7630 7705	7063 7064	1233 1233	1277 1253	1287 1263	580 567	70 hrs 1310 1307	1340 1330	567 557
1820	7750 7625	7065 7066	1230 1227	1277 1357	1257 1363	583 580			

1821	7865 7857	7067 7068	1197 1213	1220 1230	1227 1237	523 510	0			
Lot 107 ff 4.3 f few fins & checks	7360 7426	7069 7070	1170 1200	1243 1253	1253 1263	533 583	|			
1822	7544 7570	7071 7072	1200 1177	1223 1237	1230 1243	537 557	|			
1823	7597 7590	7073 7074	1200 1190	1217 1223	1227 1230	550 540	0			
1824	7594 7620	7075 7076	1183 1213	1247 1250	1257 1263	547 563	|	100	½	14.
1/8 tubes Dup 6883 only 8 Rings on instead of 4 — Rein Req.		7077 7078		1983 1942	2007 2004	588 586		2046 1958	2150 2058	688 742
1825	7370 7474	7079 7080		1240 1263	1250 1270	583 597	||			
1826	7610 7600	7081 7082		1233 1267	1247 1277	573 590	|			

Seams slightly flared bet. Rings

Very small splits at top one tube ea. tool call shows change in dia.

	200									350		
7077	1796	2038	887	2058	2242	1455	1725	1938	950	1600	1754	995
78	1708	1950	930	1867	2150	1434	1580	1833	1032	1454	1713	1050

Seams flawed badly – few places

1 large break seams flawed.

seams slightly flawed.

1827	7590 7595	7083 7084		1253 1230	1263 1240	603 563			
1828	7725 7750	7 7085 7086	1273 1257	10 1303 1273	1313 1283	467 447			
1829	7646 7660	7087 7088	1260 1273	1307 1293	1317 1303	457 450	100		
Ra Expt 1763. ppt cold dried 4th shelf covered pans	7154 7192	7089 7090	1183 1210	1340 1347	1353 1360	347 360	1347 1343	1370 1367	463 460
1830	7675 7800	7091 7092	1280 1267	1297 1280	1307 1293	443 437			
1831	7647 7588	7093 7094	1250 1233	1277 1257	1290 1267	440 450			
1832	7510 7530	7095 7096	1233 1247	1240 1287	1253 1297	433 457			
1833	7754 7790	7097 7098	1260 1263	1260 1267	1273 1280	440 453			
1834	7670 7665	7099 7100	1277 1263	1287 1287	1297 1300	480 460			

	150			200				250			700		
7089	1297	1347	550	1200	1327	620		1250	1400	650	1057	1247	620
7090	1307	1350	550	1200	1323	637		1193	1330	603	1027	1240	617

Lot 108 fl A 4.3 260 [illegible]	7375 7430	7101 7102	1243 1253	1343 1333	1357 1350	500 483	150		
RA Reg Insulating test Tetra ~~Heck~~ Ø ofs.		7103 7104	1230 1230	1307 1310	1327 1330	457 510	1327 1343	1357 1273	577 630
Reg Ni Insulating test, Connected Ni to Can Tetradope		7105 7106	1890 1197	1120 1127	1130 1143	327 417	1173 1257	1190 1277	497 547
1835	7693 7679	7107 7108	1260 1287	1247 1293	1287 1307	467 467			
1836	7730 7690	7109 7110	1160 1167	1217 1247	1227 1253	450 467			
108B flake. 4.6 -	7505 7417	7111 7112	1143 1147	1303 1263	1320 1280	510 467			
Goldstein 12% Bismuth. Nickel Connected to Can	7595 7478	7113 7114	G Run 1320 1117	1543 1433	1563 1450	840 423	1527 1477	1553 1510	777 807
Goldstein 621 12% Bi Fe Connected to Can		7115 7116	1340 1473	1458 1500	1557 1630	677 1010	1380 1400	1643 1590	957 1040

	150			200				250						
7103 7104	1323 1347	1397 1397	670 687	1220 1287	1357 1390	640 663		1173 1250	1313 1357	677 730	1003 1127	1210 1303	600 700	Out table to be Opened
7105 7106	1177 1253	1193 1283	670 713	1177 1200	1217 1240	570 597		1140 1203	1197 1277	650 733	1060 1053	1127 1143	537 700	

NOTE

											300	½	H			
7113 7114	1643 1437	1677 1480	997 947	1543 1393	167 1487	1080 973		1413 1267	1480 1333	1040 1017	1183 1233	1290 1347	743 900	1193 1227	1393 1420	807 937
7115 7116	1257 1420	1637 1627	1060 910	1567 1443	1593 1583	1087 840		1583 1400	1610 1463	1283 1167	1430 1460	1500 1517	1167 959	1377 1230	1593 1320	1147 963

	400	1/2	Hot	450	1/2	H	500	1/2	H
7113	937	1043	697	1167	1297	703	1053	1267	990
7114	1400	1573	850	1053	1180	917	1057	1167	937
7115	977	1400	800	1217	1433	913	1200	1397	1050
7116	1260	1330	617	1127	1217	923	1133	1217	920

B. Green

Iron connected to
Can heat

NOTE

NOTE

Goldulam 621, 12% Bi Can not plated inside, Ni tube Connected to Can		7117 7118	1153 1157	1623 1650	1643 1723	730 917	1710 1563	1760 1587	1117 1100
Goldulm 12% Bi Dup of 7117 Except Fe connected to Can		7119 7120	980 1047	1420 1467	1563 1543	810 1067	1443 1240	1593 1683	1233 1217
Ra Expt 1802 Cobalt 1%	7840 7872	7121 7122	1183 1170	1393 1380	1410 1397	477 493	1410 1383	1630 1400	510 520
Ra 1801	7635 7613	7123 7124	1223 1197	~~1287~~ ~~1303~~	~~1297~~ ~~1310~~	~~490~~ ~~493~~			
1837	7763 7850	7125 7126	1207 1217	~~1280~~ ~~1230~~	~~1290~~ ~~1240~~	~~470~~ ~~440~~			
1838	7787 7494	7127 7128	1213 1213	~~1320~~ ~~1287~~	~~1330~~ ~~1297~~	~~460~~ ~~463~~			
1839	7700 7653	7129 7130	1190 1183	~~1277~~ ~~1287~~	~~1290~~ ~~1297~~	~~463~~ ~~490~~			
1840	7870 7751	7131 7132	1183 1163	~~1270~~ ~~1273~~	~~1277~~ ~~1280~~	~~477~~ ~~483~~			
1841	7572 7620	7133 7134	1113 1127	~~1210~~ ~~1200~~	~~1223~~ ~~1213~~	~~507~~ ~~463~~			

Split 2 places + swollen

	150			200			LTO			300	1/2	H	350	1/2	TL
7117	1440	1467	1303	1570	1677	860	1393 x	1460	1033	1177	1267	823	1157	1347	833
7118	1533	1643	817	1313	1343	857	1533	1647	643	1640	1793	1217	1417	1487	1067
7119	1380	1500	1100	1203	1467	853	1263	1443	967	1213	1443	983	1037	1323	940
7120	1400	1613	950	1197	1593	763	1383	1567	1013	1386	1567	883	1253	1520	940
7121	1413	1450	607	1390	1463	567	1407	1507	733	1347	1480	707	1200 x swollen	1397	650
7122	1423	1437	603	1350	1400	593	1353	1443	710	1260	1413	633	1177 y	1333	717

Split 2 places

	400	1/2	H	850 Sl. swollen split in places				500			
7117	923	1057	653	790	870	850		857	940	900	
7118	1033	1167	883	1063	1143	850		1153	1333	883	
7119	1010	1257	350	960	1240	887		857	1170	817	
7120	1300	1583	250	1187	1413	853		813	1107	757	
7121	1077	1317	410	1143	1327	613		1083	1350	X	
7122	1100	1283	473	1047	1243	683		1027	1260		

Iron to Can worst here

NOTE

10

1842	7656 7623	7135 7136	1140 1130	1247 1230	1257 1243	500 508	1
1843	7642 7570	7137 7138	1133 1153	1217 1220	1227 1230	510 497	0
1844	7700 7728	7139 7140	1167 1173	10 1280 1207	1290 1213	557 480	1
1845	7831 7843	7141 7142	1253 1257	1283 1333	1290 1340	513 563	1
1846	7808 7798	7143 7144	1263 1253	1280 1280	1290 1290	523 517	1
1847	7842 7849	7145 7146	1207 1203	1230 1217	1243 1223	513 527	1
1848	7745 7710	7147 7148	1237 1220	1313 1257	1320 1263	570 543	1
1850	7755 7730	7149 7150	1197 1233	1190 1270	1200 1277	517 597	1
1851	7670 7650	7151 7152	1240 1233	1267 1257	1270 1260	603 623	1

4. Lot 109 A f 268 7558 7522	7153 7154	1230 1243	~~1237~~ ~~1307~~	~~1253~~ ~~1323~~	~~493~~ ~~537~~		
Edison Barium Sulphate Only— 9965 9938	7155 7156	7 7					
Edison Lithium Phosphate 5257 5135	7157 7158	1.7 1.7					
Edison— Calcium fluoride 6145 6147	7159 7160	2.5 .8					
Reg Ni 2 grms Iodide K each cell 7070 7142	7161 7162	37 33	~~=~~	~~27~~ ~~30~~	~~193~~ ~~190~~	~~100 lot~~ ~~50 | 383 | 17~~ ~~50 | 383 | 17~~	
Reg Ni 1 grm Iodide K	7163 7164	603 607	~~517~~ ~~543~~	~~590~~ ~~593~~	~~193~~ ~~193~~	~~Run Rev 3 times changing Sol Each time then Run twice Reg~~	
Reg Ni 500 millg Iodide K	7165 7166	647 647	~~383~~ ~~753~~	~~893~~ ~~917~~	~~283~~ ~~813~~		
Reg Ni 250 millg Iodide K	7167 7168	610 623	~~1117~~ ~~1033~~	~~1133~~ ~~1067~~	~~373~~ ~~287~~	~~after Reversed~~ ~~657~~ ~~670~~	~~Not good~~

~~Phenomenon~~ wrong

Reg no 125 mlg Iodide K	7169 7170	1050 967	1123 1137	1143 1153	397 457
1763 Expt 6240 6236 Dried bottom covered pans	7171 7172	1127 1127	1140 1140	1150 1150	423 433
Strontium Sulphate only only 289 D 9255 9265	7173 7174	00	~~273~~ ~~327~~	~~280~~ ~~333~~	~~243~~ 303
Barium Fluoride 306 10116 9986	7175 7176	1.7 1.7			
Cadmium Tungstate 361 D 11437 11351	7177 7178	1.7 .8			
Cadmium Hydrox 328 D 9620 9604	7179 7180	.8 .8			
Barium Phosphate 175 D 9482 9370	7181 7182	0 0			
Barium Molybdate 336 D 10248 10283	7183 7184	1.7 1.7			

Barium Oxalate	222N	7298 7358	7185 7186	0 0						
Nickel Tungstate	253N	8648 8699	7187 7188	377 393	273 327	280 333	243 303	230 223	237 230	233 227
Cobalt Molybdate	261N	8354 8440	7189 7190	80 83	90 90	97 97	67 63			
Cobalt Tungstate	256N	8190 8260	7191 7192	103 107	70 73	73 77	67 67			
Cerium Fluoride	340N	11180 11200	7193 7194	1.7 1.7	0 0	0 0	63 63			
1449 Ra Expt	252	7760 7780	7195 9196	1160 1167	1147 1130	1153 1140	447 457	Covered with Creplate		
1450 Ra Expt		7640 7548	7197 7198	1107 1127	1080 1107	1087 1113	400 413			
1452 Ra Expt		8010 8208	7199 7200	1177 1150	1197 1183	1207 1193	403 383			
1453 Expt Ra What is it		8262 8158	7201 7202	1187 1147	1200 1157	1210 1167	407 367	1423 1373	1433 1393	477 423

What is it?

7202 slightly swollen

Whatisit

	100	½	H.	160						180	½	1K
7201	1440	1453	537	1440	1450	867	1390	1413	623	1400	1427	909
7202	1373	1420	543	1407	1427	867	1350	1373	640	1360	1377	810

				70		
1451 Rec Expt	8090 8170	7203 7204	1137 1140	1117 1100	1127 1107	377 353
1849 Reg —	7700 7764	7205 7206	1173 1190	1260 1277	1263 1290	570 577
1852 Reg	7530 7430	7207 7208	1143 1177	1230 1270	1240 1277	583 583
1853	7658 7594	7209 7210	1183 1180	1277 1253	1287 1260	583 610
1854	7538 7620	7211 7212	1183 1193	1283 1283	1290 1293	620 590
1855	7635 7560	7213 7214	1193 1193	1283 1253	1293 1263	577 567
1856 —	7674 7690	7215 7216	1187 1187	1300 1273	1307 1280	567 567
1857	7550 7530	7217 7218	1210 1197	1293 1283	1300 1293	550 567
1858	7430 7452	7219 7220	1177 1157	1260 1260	1270 1283	573 598

Sr 504 7173—